

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Par No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit
PO039320	ACI001-VC	1	1	Net 30	M304B0.625X3.000	304 Bar .625 X 3.00 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM AZ/6 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft		\			3/21/2018 Ce!	ved	En	5053333 Drlier	Stock	3/21/2018	\$ 29.73 / ft
		2		- 6	D6201P	T Extrusion 4X4X3/8				20		20	4	S053642 S053647	Stock	3/21/2018	\$ 23.00 / ft
		3		10079337	MT-A513-T- 0.750W0.085	A513 Seamless Alloy Steel Round Tubing 0.75""dia. x 0.085"" Wall				40		46		S053643	Stock	3/21/2018	\$ 3.60 / ft
		8			MT-4140QT-R1.125	AISI 4140 Quenched &Tempered Steel Round Bar 1.125"" Dia.: AISI 4140 Q&T Round Bar: MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT				20		20		\$053644	Stock	3/21/2018	\$ 7.75 / ft
		11		50-	7	606176 Bar 1.000 X 5.000 : MATERIAL: 6061- T677651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B211 receive ft				24		24		\$053645	Stock :	3/21/2018	\$ 19.79 / ft
		17			M303R0.625	303 Round Bar 0.625"" : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM AS82 NOTE:304/316 NOT ACCEPTABLE receive ft				12		12	v	5053646	Stock 3	/21/2018	\$ 7.93 / ft
									Total:	128		134					

Plex 3/21/2018 4:04 PM Dart Dubois Pascal



Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

Tel (613) 632-5200

PURCHASE ORDER PO039320

REVISED

Supplier:

ACI001-VC

Acier Ouellette Inc.

935 Boul. Du Havre

Valleyfield QC

J6S 5L1 Canada Phone: 800 667 4248

Fax: 450 377 5696

Ship To:

1270 Aberdeen Street

Hawkesbury

ON

K6A 1K7 Canada

Phone: 613-632-5200

PO No:

PO039320

PO Date:

3/14/18 3/21/18

Due Date:

Purchase Order

Revision:

Revision Date:

Ship-To Contact:

Lavoie, ChantalPhone:

clavoie@dartaero.com

G-MAILE

Via:

Ground

Pymt Terms:

Net 30

Freight Terms:

Special Comments: quote no. sou0092083 sou0091947

- 1		Phone: 613-632-5200		Items						Unit	Extended
Line			Supplier Part No	Description	Status	Due Date	Quantity	Received Quantity Ba	alance 12 ft		Price
Item		Part		304 Bar .625 X 3.00	Firmed	3/21/18	1211				DAS
1	M	1304B0.625X3.000		S BAR OR AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT				12		MAR 2 U ZU MAR 2 1	11 8-89
				ACCEPTABLE receive ft T Extrusion 4X4X3/8	Firmed	3/21/18	20 ft	o ft	20 ft	\$23.00/ft	\$460.00 DAS
2		06201P		Extrusion 47470				20'	MAF	2 1 2018	11 9-89
Line Item I	W	s per dwg d6201 rev. a ylo no 174333		A513 Seamless Alloy	Firmed	3/21/18	40 ft	0 ft	40 ft	\$3.60/ff	DAS
3	0	1T-A513-T- 1.750W0.085		Steel Round Tubing 0.75"dia. x 0.085" Wall				46		MAR 2 1 201	M-M4
4	N	и304S11GA		304/316 0.125 Sheet : MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM		3/21/18	64 sf	69 64	64 sf	\$12.2298/si	ر
5	٨	и304S18GA		A240 OR ASME SA240 304/316 .050 Sheet : MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM		3/21/18	128 sf	· · · · · · · · · · · · · · · · · · ·	128 sf	\$5.355/s MAR 19 2	

2018			Items	6					11 11	Extend
		Supplier		Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Pric
Line	Part	Part No	Description		3/21/18	48 sf	0 sf	48 sf	\$4.780625/sf	\$229
6	M2024T3S.032	F A A	2024-T3 .032 Sheet MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR MS-QQ-A-250/4 OR MS 4037 OR ASTM	Firmea	3/2//10	40 0				2527
			The Aller Anne Contraction Walks Electronic	Firmed	3/21/18	96 sf	0/s1	96 sf	\$5.601875/sf	\$537
7	M2024T3\$.040	: A P A	024-T3 .040 Sheet MATERIAL: 2024-T3 LUMINUM SHEET AS ER QQ-A-250/4 OR MS-QQ-A-250/4 OR MS 4037 OR ASTM 209	Filmed	3/2 1/ 10		q le	MA	R 1 6 2018	3)-4
			- T	Firmed	3/21/18	20 ft	0 ft	20 ft	\$7.75/ft	\$155
8	MT-4140QT-R1.125	& B: B: : !	ISI 4140 Quenched Tempered Steel Round ar 1.125" Dia. AISI 4140 Q&T Round ar MAT'L: AISI 4130 UENCHED & EMPERED ROUND BAR	Filmed	372 17 10		20'	Ą	1AR 2 1 2018	DAS 11 9-89
9	M1018R0.313	A3 41 10	13	Firmed (3/21/18	12 ft	o ft	12 ft 5	\$0.2141666/ft	\$2 DAS
		: M 10 M MI A1	MATERIAL: AISI 1018- 025 ROUND BAR 1010S20GA AS PER IL-S-7097 OR ASTM 108 ceive ft				12'		R 1 9 2018 \$14.36125/ft	9-89
10	M6061T6B2.500X01,500	60 : N T6	061-T6 Bar 2.50 X 1.50 MATERIAL: 6061- S/T651/T6510/T6511/T62 LUMINUM BAR PER	Firmed 3	3/21/18	24 ft	24	24 II	₩ 14.00 TEOM	
		QC A 41 QC A OF AS	Q-A-225/8 OR AMS-QQ- 225/8 OR AMS 17/4128/4115/4116 OR Q-A-200/8 OR AMS-QQ- 200/8 OR AMS 4160 R ASTM B211 OR STM B221 ceive ft				~ <i> </i>		1 9 2018	DAS 9-89
11	M6061,T6E31.000X5.000	60 : M T6 AL QC A-2 411 QC A-2	61T6 Bar 1.000 X 5.000 MATERIAL: 6061- /T651/T6510/T6511/T62 UMINUM BAR PER Q-A-225/8 OR AMS-QQ- 225/8 OR AMS 17/4128/4115/4116 OR Q-A-200/8 OR AMS-QQ- 200/8 OR AMS 4160 R ASTM B211 OR	Firmed 3	/21/18	24 ft	24	24 ft	\$19.7925/ft MAR 2 1 2	\$475.0 2018

receive ft

2018			Items						Unit	Extende
		Supplier		Status	Due Date	Order Quantity	Received Quantity	Balance	Price (CAD)	Price \$172.3
Line	Part		Description 6061T6 Bar 1.250 X 3.000			12 ft	0 ft	12 ft	\$14.361666/ft	\$112
12	M606,1T6B1.250X03.000		: MATERIAL: 6061- T6/T651/T6510/T6511/T62				12			
			ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160						MAR 19 201	8 DAS 11 9-89
			OR ASTM B211 OR ASTM B221 receive ft 6061-T6 Bar 1.00 X 2.00	Firmed	3/21/18	40 ft	0 ft	40 ft	\$7.46275/ft	\$298.5
13	M6061T6B1.000X02.000		: MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR				40	AM	R 1 9 2018	0AS
			ASTM B221 receive ft 6061T6 Bar 1.00 X 6.00	Firmed	3/21/18	24 ft	0 ft	24 ft	\$19.451666/ft	\$466.8
14	M6061T6B1.000X06.000		: MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR				24'	MA	AR 19 2018	DAS 11 9-89
			ASTM B221 receive ft 304 Round Bar 0.375		3/21/18	36 ft	0 ft	36 ft	\$1.188/ft	\$42.7 DAS
15	M304R0.375		: MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE				36		1 9 2018	9-89
			receive ft 303 Hex Bar .500	Firmed	3/27/18	36 ft	0 ft	36 ft	\$9.817777/ft	\$353.
16	M303H0.500		: MATERIAL: AISI 303 SS HEX BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE receive ft		2/24/40	12 f	o ft	12 ft	\$7.92666/ft	\$95.
17	M303R0.625		303 Round Bar 0.625" : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft	Firmed	3/21/18	12.11	12		IAR 2 1 2018	DAS 11 9-89

10	4		ltoms						Unit	Extende
2018			Items		Due		Received	Dalance	Price (CAD)	Price
, ,		Supplier		Status	Date	Quantity	Quantity		\$3.453333/ft	\$41.
Line	Part	Part No	Description	Firmed	3/21/18	12 ft	0 ft	1211	φ5.4000	
Item			6061 Round Bar 1.125	FILITICO	0		- 1			
18	M6061T6R1.125		: MATERIAL: 6061-				17			
			T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR							55.6
			AS PER QQ-A-225/8 OR					MAR	1 9 2018	DI
			AMS-QQ-A-225/8 OR							S.
			ARAC 1117							6-6
			1400/4115/4116 OR QQ-							
			AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR							
			ASTM B221 OR ASTM							
			B221							\$3.
			receive ft		0104/10	20 ft	0 ft	20 ft	\$0.1565/ft	40.
			6061-T6 Round Bar	Firmed	3/21/18	2011				
19	M6061T6R0.250		0.250"				. \			
1.5			MATERIAL 6061-				347			
			T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR				Or C	M	AR 19 2018	DAS
			AS PER QQ-A-225/8 OR					6-11	111 1 0 2010	i i
			AMS-QQ-A-225/8 OR							9-29
			ASAC 4117							21-0-3
			4420/4115/4116 OR QQ-							
			AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR							
	*		ASTM B221 OR ASTM							
	第 1		B221							0110
			receive ft			20 ft	O ft	20 ft	\$5.521/ft	\$110.
			6061-T6 Round Bar 1.50	Firmed	3/21/18	2010				
20	M6061T6R1,500		MATERIAL : 6061-	Si .			, \			221
			TC/T651/T6510/T6511/102	3			2C	14	D 4 0 2010	DAG
			ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR				M	M	AR 1 9 2018	
			AMS-QQ-A-225/8 OR							8-5-
			ANAS 4117							
			4420/4115/4116 OR QQ-							
			A A 200/8 OR AMS-QQ-A-							
			200/8 OR AMS 4160 OR ASTM B221 OR ASTM							
			B221							
			receive ft			001	. 0 f	20 ft	\$9.8135/f	t \$196
			6061T6 Round Bar 2.00	Firmed	3/21/18	3 20 f	. 01			
21	M6061T6R2.000		MANTERIAL 6061-				1			nga establis
21			TG/T651/T6510/T6511/104	2			\sim		S. C. SECONDICENS	7/45
			ALLIMINUM ROUND BAR				30	MA	R 19 2018	7.5
			AS PER QQ-A-225/8 OR				•			57 - 52 53
			AMS-QQ-A-225/8 OR							
	2.54		AMS 4117 4128/4115/4116 OR QQ-							
			AA 200/8 OR AMS-QQ-A-							
			200/8 OR AMS 4160 OR							
			ASTM B221 OR ASTM							
			B221 receive ft						Grand Total	\$5,953
			receive it						Grand Total	1

Order Notes Plex 3/15/18 11:10 AM dart.lavoie.chanta

Order Notes

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit A049 supplier awareness www.dartaerospace.com for further explanation.

Plex 3/15/18 11:10 AM dart.lavoie.chantal

Billed to

Shipped to

Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

, Ontario,

DART AEROSPACE LTD

1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

DELIVERY - CLIENT

Copy C000078782

Date **Customer N° Delivery date** 2018/03/21 2018/03/15 CLI0001056

Your order N° 039320

Salesman Processed by Josianne Bourdon

OUELLETTE VALLEYFIELD

Credit Terme

Carrier

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Net 30 Days

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NIR: R-109516-6

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DELIVERY - CLIENT

ACIER OUELLETTE INC.

Copy C000078782

All sold and delivered materials remain the property of "Acier Ouellette Inc." until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made Conditions: Billed to HAWKESBURY, Ontario, K6A 1K7 DART AEROSPACE LTD 4 1270, ABERDEEN ST. Instruction ROUND SS 5/8 303 RANDOM NS RSS-58303-V AC14377-JG-19/03 1 X 12' R/L YHEAT: 6174 **Product Description** FX 8749 LINE 18 Shipped to **Delivery Route** Att : CHANTAL LAVOIE Tél.: 613-632-5200 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Salaberry de Valleyfield (Québec) J6S 5L1 935, Boul. du Hâvre Ontario, Total Weight (Lbs): Weight 12.52 244.74 Ato Ato 12.00 PI_\$CLB Z X NIR: R-109516-6 CMD Page Date **Credit Terme** Carrier Salesman Your order N° **Delivery date** Processed by Customer N° EXP PCS NB **B**/0 Net 30 Days **OUELLETTE VALLEYFIELD** 039320 CLI0001056 2018/03/15 Z Josianne Bourdon 2018/03/21 Internal Use Only S 0 MAR 2 1 2018 DAS 11 OUT

Prepared By : Verified By: Delivered By: Time Customer's Signature Date 3

within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Total (\$CAD)

D



Material Test Report

Date MTR No. 4/30/2016 0000056606

7953 Washington Woods Dr.,

Dayton, OH 45459

Phone: (937)573-4675

Fax: (702)926-4128

			0			Part	Number:87	7-15955-17		
PO Number:87	-1595	5	0	ž	2					
Description: A	513T5 =0.58	-14; SRA 4"; (WT=	A; DOM; G =0.083"); [irado=10 Deburreo	020; Categ	ory=CARE 240" to 28	BON WELD B"	DED; Round	d OD=0.7	50"; Jaf
Product: TU	BE						Ends	: Deburre	d	
Heat No: 15	C1472			Steel (Grade: 10	20				
DIM	ENSIC	NS	T	OLE RAN	ICE		AND THE RESIDENCE OF THE STREET,	QUANTIT	ry	
	MM	IN	-VI	E +V	E UOM	NUM	BER	METER /	FT	WEIGHT TON
	19.050 14.834 2.108	0.75 0.58 0.08	4 0.005	50 0.0	0050 IN 0000 IN 0000 IN	6,096.000		598.371 MM 240.00	5,244.000 0 - 288.000	1.550
					0000 114	L				
FIGNENTO			ANALYSIS		00000	i j		IANICAL PR		
ELEMENTS Carbon (C) Manganese (Mn)	W %	0.1800 0.3000	0.2300 0.6000	0.1900 0.4300	PRODUCT		Y.S Psi	U.T.S Psi	% E	HARDNESS HRB
Silicon (Si)	96			0.6170	i	MIN	55,000	65,000	10.00	75.00
Aluminum (AL) Phosphorus (P)	%	1	0.0350	0.0460		MAX	67,630	76,010	20.00	80.00
Sulfur (S) Chromium (Cr) Nickel (Ni)	% % %	ļ	0.0350	0.0100		PROD Sample O	rientation:			
Molybdenum (Mo) Vanadium (V)				2		Tensile S	Spec Type: Vidth (MM):			
Copper (Cu) Columbium (CB)	%	İ	İ	₹ .	-	Remarks		and a resident		
Calcium (Ca) Titanium (Ti)	% %	ļ	-	Mary and a second	8					
Nitrogen (N)	%		1	3	·i		*			
Boron (B)	%	1	į	3:	1	İ				
Zirconium (Zr) Antimony (Sb)	%	i		Ė			*	82		
Tin (Sn)	1.70	== ==	==:==1	_ î,		!. 				
100% EDDY CUR		TESTING-	E309	3		ASSED		240055		7
FLATTENING TEST) i						/3% OF OD I	PASSED		
FLARING TEST STRAIGHTNESS				<u>;</u>		5% OF ID PA ASSED (1/10				
Remarks:										Andrew Amount
leited In: INDIA		ree of we	eld repair a	arc has	Prod not come	luced In: II	NDIA with Mercu	ry or any o	f its comp	onents.
Ve hereby Cert	ify tha	t the mai	erial desc	rib ed ab	ove confo	rms to Spe	ecification a	and Purcha	se Order.	

Bill Johnston

Quality Co-ordinator

Any questions, Please email: TestReports 2 aaris-lic.com

CERTIFICATE OF TEST DARELLE CERTIFICAT D'ESAIS

PO.14377

Page 01 of 02

Certification Date 19-MAR-2018

Invoice Number S704941

CUSTOMER ORDER NUMBER NUMÉRO DE COMMANDE DU CLIENT

AC00014377
PART NUMBER/NUMÉRO DE PIÈCE

SHIP TO: ACIER OUELLETTE INC. ACIER OUELLETTE INC. SOLD TO: DIVISION SALABERRY DE VALLEYFIELI DIVISION SALABERRY DE VAEXEMPLÉELD VENDU A: 935, BOUL. DU HAVRE 935, BOUL. DU HAVRE J6S 5L1SALABERRY-DE- VALLEYFIE OC J65 QC SALABERRY-DE- VALLEYFIELD 4140/4142 HR HT BAR STRESS FREE 269/321 BHN Description: Line Total: 68 75065609 ITEM: 506426 Specifications: ASTM A434 GR BC 06 ASME SA193 GR B7 ASTM A193 GR B7 16 CHEMICAL ANALYSIS P S NI CR MO C MN 0.18 0.0090 0.028 0.90 0.87 0.23 0.18 0.41 V NB CU SN AL 0.003 0.003 0.17 0.021 0.007 RCPT: R196179 COUNTRY OF ORIGIN : USA MECHANICAL PROPERTIES .______ %ELONG %RED HARDNESS ULT TEN YLD STR IN 02 IN IN AREA BHN KSI DESCRIPTION KSI 20.4 65.0 296 146.0 135.0

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession./Par les présentes nous certifions que le gratériel couvert par ce rapport rencontre les spécifications décrites cihaut.

MANAGER QUALITY ASSURANCE GÉRANT DE L'ASSURANCE QUALITÉ

garne Lespress

CERTIFICATE OF TEST **CERTIFICAT D'ESAIS**

Page 02 of 02

Certification Date 19-MAR-2018

CUSTOMER ORDER NUMBER NUMÉRO DE COMMANDE DU CLIENT

AC00014377

Invoice Number S704941

PART NUMBER/NUMÉRO DE PIÈCE

ACIER OUELLETTE INC.

ACIER OUELLETTE INC.

SOLD TO: VENDU À:

57

DIVISION SALABERRY DE VALISHIFICED 935, BOUL. DU HAVRE

EXPEDIE A:

54

0.60

55

DIVISION SALABERRY DE VALLEYFIELI

935, BOUL. DU HAVRE

J6S 5L1SALABERRY-DE- VALLEYFIE SALABERRY-DE- VALLEYFIELD OC

9

53

QC J65

4140/4142 HR HT BAR STRESS FREE 269/321 BHN Description:

LB Line Total: 68

1-1/8 RD X 20' R/L

57

HEAI: 75065609 IIEM: 506426

END-QUENCH HARDENABILITY (JOMINY - RC)

57

7 2 3 4 5 6 1

12 14 16 18 20 10 44 43 51 49 47 45

57

28 32 24

37 39 41

GRAIN SIZE :5 - 8

57

MATERIAL IS FREE FROM MERCURY CONTAMINATION

57

NO WELD REPAIR PERFORMED ON MATERIAL

1415

THERMAL TREATMENT: OK

AUSTENIZE

1650 0.60

0 0.00

QUENCH TEMPER

MACRO: OK

WATER

COMMENTS

melted and mfg in usa reduction ratio 68.5:1

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> The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contest with mercuny while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites cihaut.

> MANAGER QUALITY ASSURANCE GÉRANT DE L'ASSURANCE QUALITÉ

same Despris

CO, 78782 DART CAN ART PO,14372N

Material Test Report

Manifest: 336306

<u>Ticket:</u> 5584121

Our Order: 882700 - 1

Cust P.O.: 4500858361-RY003

Die: ES63347

Part: 160001273

Alloy Temper: 6061 T6511

Description; 1.000 x 5.000

Print Date: 2/21/18

(Chemical (Composit	ion			
u	Mn	Mg	Cr	Zn	Ti	Othe

CastNum 18010071A <u>Si</u> 0.54 <u>Fe</u> 0.15

<u>Cu</u> 0.20 Mn 0.01 Mg 0.80

0.08

0.01

<u>Ti</u> 0.01 OtherEach 0.05

Maximun

OtherTotal 0.15

Mechanical Properties

Strength ksi

Sample ID Cast #

Lot#

Test Date

2/11/18

<u>Ultimate</u> Tensile Yield 2% offset Elongation 2" gage length

77485

18010071A

All

43.07

39.64

15.3

Applicable Specifications

ASTMB221-14

AMS-QQ-A200/8A

Country of Origin: ONTARIO, CANADA

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.

Evan Eng, Quality Assurance Manager

CERTIFICATE OF TEST DART CERTIFICAT D'ESAIS

PO.14377

Page 01 of 02

Certification Date 19-MAR-2018

CUSTOMER ORDER NUMBER NUMÉRO DE COMMANDE DU CLIENT

1

Invoice Number \$704940

AC00014377

PART NUMBER/NUMÉRO DE PIÈCE

508804 SHIP TO: ACIER OUELLETTE INC. SOLD TO: ACIER OUELLETTE INC. DIVISION SALABERRY DE VALLEYFIELI DIVISION SALABERRY DE VAEXPÉDIÉELD VENDUA: 935, BOUL. DU HAVRE 935, BOUL. DU HAVRE J6S 5L1SALABERRY-DE- VALLEYFIE OC J65 SALABERRY-DE- VALLEYFIELD 303 CF ANN BAR ASTM A582 Description: Line Total: 5/8 RD X 12 ITEM: 508804 HEAT: Specifications: SAE AMS 5640U 07 AMS 5640 TYPE 1 U ASTM A582 M17 CHEMICAL ANALYSIS NI MN P C 0.04 0.34 17.55 0.47 8.04 0.37 1.74 0.06 CU N 0.73 0.073 RCPT: R286325 COUNTRY OF ORIGIN : INDIA MECHANICAL PROPERTIES ______ %ELONG %RED HARDNESS YLD STR ULT TEN IN AREA BHN IN 02 IN MPa DESCRIPTION MPa 55.0 202 658.0 49.0 433.0

MATERIAL IS FREE FROM MERCURY CONTAMINATION

THERMAL TREATMENT: OK

HEAT TREATMENT: MATERIAL SOL. ANNEALED AT 1050 C SOAKING FOR

1 HOUR & WATER QUENCHED

CORROSION: OK

MACRO: OK

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession./Par les présentes nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-

MANAGER QUALITY ASSURANCE GÉRANT DE L'ASSURANCE QUALITÉ

surve Lespre

CERTIFICATE OF TEST **CERTIFICAT D'ESAIS**

Page 02 of 02

Certification Date 19-MAR-2018

CUSTOMER ORDER NUMBER NUMÉRO DE COMMANDE DU CLIENT

AC00014377

Invoice Number S704940

PART NUMBER/NUMÉRO DE PIÈCE 508804

ACIER OUELLETTE INC.

ACIER OUELLETTE INC.

SOLD TO: VENDU A: DIVISION SALABERRY DE VALI**SHIPIO**LD

DIVISION SALABERRY DE VALLEYFIELI

935, BOUL. DU HAVRE SALABERRY-DE- VALLEYFIELD

935, BOUL. DU HAVRE EXPEDIE A: J6S 5L1SALABERRY-DE- VALLEYFIE

OC J65

Description:

303 CF ANN BAR ASTM A582

Line Total: 14 LB

5/8 RD X 12' R/L HEAT: 6174

ITEM: 508804

OC

COMMENTS

country of origin: india

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

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Material did not come in content with mercury while in our possession/Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites cihaut.

> MANAGER QUALITY ASSURANCE GÉRANT DE L'ASSURANCE QUALITÉ

same Lespres

MATERIAL:	303R0,625 MAR 2 2 2018	PO/BATCH NO.: <u>039320/5053</u> 646
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	Ve5 12 12 0	THICKNESS ORDERED: THICKNESS RECEIVED: SHEET SIZE ORDERED: SHEET SIZE RECEIVED:
DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	

CUT SAMPLE PIECE OF	MATERIAL A	ND PREFOR	M A HARDNE	SS CHECK.	
F	RECORD RES	SULTS BELOV	V		
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					†

(N)

N

N

N

N

N

(1)

(M)

N ASTM

CORROSION

CORRECT GRAIN DIRECTION

CORRECT MATERIAL PER M-DRAWING
CORRECT THICKNESS

PHOTO REQUIRED

CORRECT REF # TO LINK CERT

DOES THIS MATERIAL REQUIRE

ENGINEERING SIGN OFF DOES THIS REQUIRE AN

EXTRUSION REPORT

CORRECT MATERIAL IDENTFICATION OF CORRECT M# ON THE MATERIAL OF CORRECT M# ON THE M# O

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	DAS 11	SIGNED OFF BY:
DATE:	9-4MAR 2 2 2018	DATE:

2010 -02 - 02 N

REV. B NTS SHEET 1 OF 1 01.12.20 10.01.05 DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
M303R 303 ROUND BAR
COPYRIGHT © 2001 BY DART AEROSPACE LTO CP B REFORMAT DWG. ADD SPECS (ZN D8-1),
A NEW ISSUE 10.01.05 REV. DESIGN
DESIGN
DEAWN
CHECKED
MFG. APPR.
APPROVED
DE APPR.
DATE 10

SPECIFICATION CONTROL DRAWING

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3

PURCHASE MATERIAL: AISI 303 SS ROUND BAR (NOTE: AISI 304/316 NOT ACCEPTABLE) SPECIFICATION: ASTM A582

PART NUMBER:

@

Ω

M303RID.DDD

WHERE "D.DDD" = DIAMETER IN INCHES EG. 0.75" ROUND BAR = M303R0.750

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MATERIAL: _ DATE: _	MAR 2 2 2018	0X5,000 PO/BATCH NO.: C	39370/5053645
MATERIAL CERT REC'D: _ QUANTITY RECEIVED: _ QUANTITY INSPECTED: _ QUANTITY REJECTED: _	745 241 241	THICKNESS ORDERED: _ THICKNESS RECEIVED: _ SHEET SIZE ORDERED: _ SHEET SIZE RECEIVED: _	1.000 1.000 N/A N/A

DESCRIPTION	NCR (Chec Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)
CORRECT FINISH	(7)	N
CORROSION	Y (N)
CORRECT GRAIN DIRECTION	(%)	N ,
CORRECT MATERIAL PER M-DRAWING	(Y) I	N Astm B221
CORRECT THICKNESS	(Y) I	N
PHOTO REQUIRED	Y	N)
CORRECT REF # TO LINK CERT	(V)	N Hast # 18010071A
CORRECT MATERIAL IDENTFICATION	1	N /
CORRECT M# ON THE MATERIAL	1 (Y)	N
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	R)
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	

CUT SAMPLE PIECE OF				SS CHECK.		
	RECORD RES	SULTS BELOV	N			
	HRC	HRB	DUR A	DUR D	WEBSTER	
TYPE OF MATERIAL						
SIZE OF TEST SAMPLE						
HARDNESS / DUROMETER READING						

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: _	DAS 11	SIGNED OFF BY:
DATE:	9-8 MAR 2 2 2018	DATE:

RELEASED 2009 -05-03

REV. B NTS SHEET 1 OF 1 09.07.13 01.06.08 DATE DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
M6061T6B
SHEE COPYRIGHT ® 2001 BY DART AEROSPACE LTD BY TORNATE AND CORF CORPLAY OF SUPPLIES OF THE LOPES S. CONDITIONS OF THE LOPES S. CONDITIONS OF THE LOPES S. CONDITIONS OF THE LOPES S. CONDITIONS OF THE LOPES S. CONDITIONS OF T SO CP B REMOVE OQ.4-250/11 OPTION. REFORMAT NOTES, ADD ASTM B21/16221 (ZN D7-1)
A NEW ISSUE - 6061-T6 BAR DESCRIPTION DE APPR. DATE 09.07.13 MFG. APPR. APPROVED CHECKED DESIGN DRAWN REV

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQAA-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B221

M6061T6B T.TTT X WW.WWW

WHERE "T.TT" = THICKNESS IN INCHES "WW.WWW" = WIDTH IN INCHES WIDTH THICK

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

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®

PART NUMBER:

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SPECIFICATION CONTROL DRAWING

MATERIAL: _ DATE: _	MT-A513-T-0.750V	VO.085 PO/BATCH NO.:039320/5053643
MATERIAL CERT REC'D:QUANTITY RECEIVED:	7.05	THICKNESS ORDERED: WO.085 THICKNESS RECEIVED: WO.085
QUANTITY INSPECTED: _ QUANTITY REJECTED: _	76	SHEET SIZE ORDERED: SHEET SIZE RECEIVED:

DESCRIPTION	, ,	CR eck (N)	COMMENTS
SURFACE DAMAGE	Y	N	
CORRECT FINISH	Y	N	
CORROSION	Υ	N	
CORRECT GRAIN DIRECTION	(Y)_	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	A513 XVDe5
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	8	N	Heat # 15C1472
CORRECT MATERIAL IDENTFICATION	8	Ν	
CORRECT M# ON THE MATERIAL	W	Ν	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	(Ŋ)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(Z)	

CUT SAMPLE PIECE OF	MATERIAL A			SS CHECK.		
			/ V			
	HRC	HRB	DUR A	DUR D	WEBSTER	
TYPE OF MATERIAL						
SIZE OF TEST SAMPLE						
HARDNESS / DUROMETER READING						

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	DAS 11	SIGNED OFF BY:
DATE:	⁹⁻⁸⁹ MAR 2 2 2018	DATE:

۵ APPROVED MM M ASTM A513 TYPE 5 (1020/1026) ALLOY STEEL ROUND TUBING (DOM) ВУ 3 N 17.09.06 17.12.13 MT-A513-T ECN# 17-655 17-790 PURCHASE MATERIAL: ASTM A513 TYPE 5 (1020/1026) SEAMLESS ALLOY STEEL ROUND TUBING (DOM) EG. 3/4" ROUND TUBING WITH .120" WALL THICKNESS = MT-A513-T-0.750W0.120 Meter TYPE 5 ADDED, TEMPLATE UPDATED DESCRIPTION NEW RELEASE WHERE D.DDD IS OUTSIDE DIAMETER IN INCHES WHERE T.TTT IS WALL THICKNESS IN INCHES SPECIFICATION CONTROL DRAWING REV. MT-A513-T-[D.DDD]W[T.TTT] ASTM A513 TYPE 5 SPECIFICATION: PART NUMBER: ۵ O B

MATERIAL: _ DATE: _	MT-A513-T-1.13 MAR 2 2 2018	540,188 PO.	/ BATCH NO.: <u>(</u>	<u> 239300/505</u> 3	688
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	7 e s 21' 21'	THICKNES: SHEET SIZ	SS ORDERED: _ S RECEIVED: _ E ORDERED: _ E RECEIVED: _	WO-188 N/A N/A	

DESCRIPTION	(Ch	eck	COMMENTS
SURFACE DAMAGE	Υ	(N)	
CORRECT FINISH	(A)	N	
CORROSION	Υ	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	. 4
CORRECT MATERIAL PER M-DRAWING	(Y)	Ν	ASTM A513 +5
CORRECT THICKNESS	(Ÿ)	Ν	
PHOTO REQUIRED	Y	(1)	
CORRECT REF # TO LINK CERT	(P)	N	Hept # C357969
CORRECT MATERIAL IDENTFICATION	8	Ν	
CORRECT M# ON THE MATERIAL	(8)	Ν	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	$\overline{\mathbb{Z}}$	
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(B)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK.						
RECORD RESULTS BELOW						
	HRC	HRB	DUR A	DUR D	WEBSTER	
TYPE OF MATERIAL						
SIZE OF TEST SAMPLE						
HARDNESS / DUROMETER READING						

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: DAS	SIGNED OFF BY:
DATE: 9-89 MAR 2 2 2018	DATE:

WW M ASTM A513 TYPE 5 (1020/1026) ALLOY STEEL ROUND TUBING (DOM) NW VW MT-A513-T ECN# 17-655 PURCHASE MATERIAL: ASTM AST3 TYPE 5 (1020/1026) SEAMLESS ALLOY STEEL ROUND TUBING (DOM) EG. 3/4" ROUND TUBING WITH .120" WALL THICKNESS = MT-A513-T-0.750W0.120 Mese TYPE 5 ADDED, TEMPLATE UPDATED NEW RELEASE WHERE D.DDD IS OUTSIDE DIAMETER IN INCHES WHERE T.TTT IS WALL THICKNESS IN INCHES SPECIFICATION CONTROL DRAWING REV. MT-A513-T-[D.DDD]W[T.TTT] ASTM A513 TYPE 5 5 SPECIFICATION: PART NUMBER: 0 O ш

MATERIAL: MT-	MAR	0 G 11	ZU18	<u>1</u> 25	PO/BATCH NO.: 039320/5053644			
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	10 20 20	5		THI	ICKNESS ORDE CKNESS RECE EET SIZE ORDE EET SIZE RECE	RED: 1.12	25 21/4	
DESCRIPTION	(Ch	CR neck (N)			COMMEN	TS		
SURFACE DAMAGE	Y.	N			377			
CORRECT FINISH	(1)	N						
CORROSION	Y	N						
CORRECT GRAIN DIRECTION	(V)	N				***	2)	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	tool 1	use with	Dord tooli	n valu	70.	
CORRECT THICKNESS	(Y)	N				9		
PHOTO REQUIRED	Y	0						
CORRECT REF # TO LINK CERT	0	N	Heat.	# 7506	5609			
CORRECT MATERIAL IDENTFICATION	4263	N		,				
CORRECT M# ON THE MATERIAL	(Y)	N						
DOES THIS MATERIAL REQUIRE		00						
ENGINEERING SIGN OFF	Υ	(A)						
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	N)			1			
CUT SAMPLE PIECE	OF	MAT	TERIAL A	ND PREFOR	M A HARDNE	SS CHECK.		
				SULTS BELO				
			HRC	HRB	DUR A	DUR D	WEBSTER	
TYPE OF MATERIAL	- 1							
SIZE OF TEST SAMPLE								

	store located in	 	
HARDNESS / DUROMETER READING			_

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: _	DAS / 10.	SIGNED OFF BY:
DATE:	9-89MAR 2 2 2018	DATE:

0 BY APPROVED | INTITACE AND DATE | ORGANISM PRINTANT TRANSPORMED AND TRANSP ML AISI 4140 ROUND BAR N/ MT-4140-R 17.12.13 DATE ECN# 17-790 かん DESCRIPTION NEW ISSUE ASTM A29, AMS 6349, AMS 6382, AMS 6529 MT-4140-R-[D.DDD] WHERE "D.DDD" = DIAMETER IN INCHES REV. SPECIFICATION CONTROL DRAWING EX. 4" ROUND BAR = MT-4140-R-4.000 4 PURCHASE MATERIAL: AISI 4140 ROUND BAR MINIMUM ROCKWELL C = 20 Rc MAXIMUM ROCKWELL C = 38 Rc 2 SPECIFICATION: PART NUMBER: ۵ O В V